

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

1. (currently amended) A client wireless module, for handling communications to and from an access point wireless module, comprising:
  - an 802.11b processing section, for processing at least data to be transmitted to the access point wireless module into representations of a transmit signal;
  - an OFDM processing section, for processing at least a representation of a receive signal from the access point wireless module into receive data;
  - at least one transmit antenna, coupled to the 802.11b processing section;
  - at least one receive antenna, coupled to the OFDM processing section; and
  - logic for routing information between a client and the client wireless module.
2. (original) The client wireless module of claim 1, wherein the at least one transmit antenna comprises a plurality of transmit antennas.
3. (original) The client wireless module of claim 1, wherein the at least one receive antenna comprises a plurality of receive antennas.
4. (currently amended) A client wireless module, for handling communications to and from an access point wireless module, comprising:
  - an OFDM processing section, for processing at least data to be transmitted to the access point wireless module into representations of a transmit signal;
  - an 802.11b processing section, for processing at least a representation of a receive signal from the access point wireless module into receive data;
  - at least one transmit antenna, coupled to the OFDM processing section;
  - at least one receive antenna, coupled to the 802.11b processing section; and
  - logic for routing information between a client and the client wireless module.
5. (original) The client wireless module of claim 4, wherein the at least one transmit antenna comprises a plurality of transmit antennas.

6. (original) The client wireless module of claim 4, wherein the at least one receive antenna comprises a plurality of receive antennas.

7. (currently amended) An access point wireless module, for handling communications to and from [[an]] a client wireless module, comprising:

an 802.11b processing section, for processing at least data to be transmitted to the client wireless module into representations of a transmit signal;

an 802.11g processing section, for processing at least a representation of a receive signal from the client wireless module into receive data;

at least one transmit antenna, coupled to the 802.11b processing section;

at least one receive antenna, coupled to the 802.11g processing section; and

logic for routing information between an access point and the access point wireless module.

8. (original) The access point wireless module of claim 7, wherein the at least one transmit antenna comprises a plurality of transmit antennas.

9. (original) The access point wireless module of claim 8, wherein the at least one receive antenna comprises a plurality of receive antennas.

10. (currently amended) An access point wireless module, for handling communications to and from [[an]] a client wireless module, comprising:

an 802.11g processing section, for processing at least data to be transmitted to the client wireless module into representations of a transmit signal;

an 802.11b processing section, for processing at least a representation of a receive signal from the client wireless module into receive data;

at least one transmit antenna, coupled to the 802.11g processing section;

at least one receive antenna, coupled to the 802.11b processing section; and

logic for routing information between an access point and the access point wireless module.

11. (original) The access point wireless module of claim 10, wherein the at least one transmit antenna comprises a plurality of transmit antennas.

12. (original) The access point wireless module of claim 10, wherein the at least one receive antenna comprises a plurality of receive antennas.

13. (currently amended) A method of wireless communication between a client device and an access point, wherein a client device is a wireless network station that is portable, mobile or portable and mobile, the method comprising:

transmitting upstream data from the client device using an 802.11b protocol;

receiving the upstream data at the ~~client device~~ access point;

transmitting downstream data from the access point using an 802.11g protocol in response to receiving the upstream data at the access point; and

receiving the downstream data at the client device.

14. (new) A client wireless module, for handling communications to and from an access point wireless module, comprising:

a first protocol processing section, for processing at least data to be transmitted to the access point wireless module into representations of a transmit signal using a first protocol from a plurality of protocols;

a second protocol processing section, for processing at least a representation of a receive signal from the access point wireless module into receive data using a second protocol from the plurality of protocols;

at least one transmit antenna, coupled to the first protocol processing section;

at least one receive antenna, coupled to the second protocol processing section;

logic for routing information between a client and the client wireless module; and

wherein the first protocol and the second protocol are different protocols for wireless communication, and wherein the first protocol and the second protocol are selected at least in part based upon one or more attributes of the client wireless module and one or more attributes of the access point wireless module.

15. (new) The client wireless module of claim 14, wherein the one or more attributes of the access point wireless module include a sensitivity of a receiver of the access point wireless module, wherein the one more attributes of the client wireless module include a sensitivity of a receiver of the client wireless module, wherein if the receiver of the access point

wireless module has a higher sensitivity than the sensitivity of the receiver of the client wireless module, a wireless communications protocol having a higher data rate is selected for the first protocol from the plurality of wireless communications protocols, and wherein if the receiver of the access point wireless module has a lower sensitivity than the sensitivity of the receiver of the client wireless module, a wireless communications protocol having a lower data rate is selected for the first protocol from the plurality of wireless communications protocols.

16. (new) The client wireless module of claim 14, wherein the one or more attributes of the access point wireless module include a transmitter strength of a transmitter of the access point wireless module, wherein the one or more attributes of the client wireless module include a transmitter strength of a transmitter of the client wireless module, wherein if the transmitter strength of the transmitter of the access point wireless module has a higher transmitter strength than the strength of the transmitter of the transmitter of the client wireless module, a wireless communications protocol having a higher data rate is selected for the second protocol from the plurality of wireless communications protocols, and wherein if the transmitter of the access point wireless module has a lower transmitter strength than the transmitter strength of the transmitter of the client wireless module, a wireless communications protocol having a lower data rate is selected for the second protocol from the plurality of wireless communications protocols.

17. (new) The client wireless module of claim 14, wherein the at least one transmit antenna comprises a plurality of transmit antennas.

18. (new) The client wireless module of claim 17, wherein the at least one receive antenna comprises a plurality of receive antennas.

19. (new) An access point wireless module for handling communications to and from a client wireless module, the access point wireless module comprising:

a first protocol processing section, for processing at least data to be transmitted to the client wireless module into representations of a transmit signal using a first protocol from a plurality of protocols;

a second protocol processing section, for processing at least a representation of a receive signal from the client wireless module into receive data using a second protocol from the plurality of protocols;

at least one transmit antenna, coupled to the first protocol processing section;  
at least one receive antenna, coupled to the second protocol processing section;  
logic for routing information between an access point and the access point wireless module; and

wherein the first protocol and the second protocol are different protocols for wireless communication, and wherein the first protocol and the second protocol are selected at least in part based upon one or more attributes of the client wireless module and one or more attributes of the access point wireless module.

20. (new) The access point wireless module of claim 19, wherein the one or more attributes of the access point wireless module include a sensitivity of a receiver of the access point wireless module, wherein the one or more attributes of the client wireless module include a sensitivity of a receiver of the client wireless module, wherein if the receiver of the client wireless module has a higher sensitivity than the receiver of the access point wireless module, a wireless communications protocol having a higher data rate is selected for the first protocol from the plurality of wireless communications protocols, and wherein if the receiver of the client wireless module has a lower sensitivity than the receiver of the access point wireless module, a wireless communications protocol having a lower data rate is selected for the first protocol from the plurality of wireless communications protocols.

21. (new) The access point wireless module of claim 19, wherein the one or more attributes of the access point wireless module include a transmitter strength of a transmitter of the access point wireless module, wherein the one or more attributes of the client wireless module include a transmitter strength of a transmitter of the client wireless module, wherein if the transmitter strength of the transmitter of the client wireless module is higher than the transmitter strength of the transmitter of the access point wireless module, a wireless communications protocol having a higher data rate is selected for the second protocol from the plurality of wireless communications protocols, and wherein if the transmitter of the client wireless module has a lower transmitter strength than the transmitter of the access point wireless

module, a wireless communications protocol having a lower data rate is selected for the second protocol from the plurality of wireless communications protocols.

22. (new) The access point wireless module of claim 19, wherein the at least one transmit antenna comprises a plurality of transmit antennas.

23. (new) The access point wireless module of claim 22, wherein the at least one receive antenna comprises a plurality of receive antennas.

24. (new) A method of wireless communication between a client device and an access point, wherein a client device is a wireless network station that is portable, mobile or portable and mobile, the method comprising:

- transmitting upstream data from the client device using a first protocol;
- receiving the upstream data at the access point;
- transmitting downstream data from the access point using a second protocol in response to receiving the upstream data at the access point;
- receiving the downstream data at the client device; and
- wherein the first protocol and the second protocol are different protocols for wireless communication.